

ATCC 21523○ MSTHTSSTLPAFKKILVANRGEI AVRA FRAALETGAATVAIYP
 NRRL-B11474○ MTAITLGGLLLLKGIITLV

ATCC 21523○ REDRGSFHRSF ASEAVRIGTEGSPVKAYLDIDEIIGA AKKV KADAIYPGYGFLSENAQLA
 NRRL-B11474○

ATCC 21523○ RECAENGITFIGPTPEVLDLTGDKSRAVTA AKKAGLPVLAESTPSKNIDEIVKSAEGQTY
 NRRL-B11474○ D

ATCC 21523○ PIFVKAVAGGGGRGMRFVASPDELRLK LATEASREAEAAFGDGAVYVERAVINPQHIEVQI
 NRRL-B11474○ S S

ATCC 21523○ LGDHTGEVVHLYERDCSLQRRHQKVVEIAPAAQHLDPELRDRICADAVKFCRSIGYQGAG
 NRRL-B11474○ R

ATCC 21523○ VEFVLVDEKGNHVFIE MNPRIQVEHTVTEEVDLVKAQMRLAAGATLKE LGLTQDKIKT
 NRRL-B11474○

ATCC 21523○ HGAALQCRITTEDPNNGFRPD TGTITAYRSPGGAGVRLDGAAQLGGEITAHFDSMLVKMT
 NRRL-B11474○

ATCC 21523○ CRGSDFETAVARAQRALAEFTVSGVATNIGFLRALLREEDFTSKRIATGFIADHPHLLQA
 NRRL-B11474○ G

ATCC 21523○ PPADDEQGRILDYLA DVTVNKPHGVRPKDVAAPIDKLPNIKDLPLPRGSRDR LKQLGPAA
 NRRL-B11474○

ATCC 21523○ FARDLREQDALAVTD TTFRDAHQSLLATRVRSFALKPA AEAVAKLTPELLSVEAWGGATY
 NRRL-B11474○

ATCC 21523○ DVAMRFLFEDPWDR LDELREAMPNVNIQMLLRGRNTVGYTPYPDSVCRAFVKEAASSGVD
 NRRL-B11474○

ATCC 21523○ IFRIFDALNDVSQMRPAIDAVLETNTAVAEVAMAYSGDLSDPNEKLYTLDY YLKMAEEIV
 NRRL-B11474○

ATCC 21523○ KSGAHILA IKDMAGLLRPAAVTKLV TALRREFDLPVHVHTHDTAGGQLATYFAAAQAGAD
 NRRL-B11474○

ATCC 21523○ AVDGASAPLSGTT SQPSLSAIVAAFAHTRRDTGLSLEAVSDLEPYWEAVRGLYLPFESGT
 NRRL-B11474○

FIG. 2A

830 840 850 860 870 880
ATCC 21523 ○ PGPTGRVYRHEIPGGQLSNLRAQATALGLADRFELIEDNYAAVNEMLGRPTKVTPSSKV
NRRL-B11474 ○

890 900 910 920 930 940
ATCC 21523 ○ GDLALHLVGAGVDPADFAADPQKYDIPDSVIAFLRGELGNPPGGWPEPLRTRALEGRSEG
NRRL-B11474 ○

950 960 970 980 990 1000
ATCC 21523 ○ KAPLTEVPREEQAHLDADDSKERRNSLNRLFPKPTEEFLEHRRRFGNTSALDDREFFYG
NRRL-B11474 ○

1010 1020 1030 1040 1050 1060
ATCC 21523 ○ LVEGRETLIRLPDVRTPLLRLDAISEPDDKGMNRNVVANVNGQIRPMRVRDRSVESVTAT
NRRL-B11474 ○

1070 1080 1090 1100 1110 1120
ATCC 21523 ○ AEKADSSNKGHVAAPFAGVTVTVTAEGDEVKAGDAVAII EAMKMEATITASVDGKIDRVV
NRRL-B11474 ○ ○ (E)

1130 1140
ATCC 21523 ○ VPAATKVEGGDLIVVVS
NRRL-B11474 ○

FIG. 2B